

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-11. (canceled)

12. (currently amended) A sound-correction apparatus in the audio apparatus installed in a vehicle comprising:

an adjustment device adjusting the sound-volume in the full frequency range of the reproduced signal;

a low-frequency-correction device which corrects the sound in the low-frequency range;

a high-frequency-correction device which corrects sound in the high-frequency range;

an extraction device that extracts the low-frequency component below the audible frequency;

a first detection device that detects the vehicle speed;

~~a second detection device that detects the opened/closed status of the opening/closing function in the vehicle;~~

a ~~third~~ second detection device which detects the amount of adjustment by said adjustment device;

a first calculation device that calculates the amount of low-frequency correction that is corrected by said low-frequency-correction device according to the ratio of said low-frequency component extracted by said extraction device, and said adjustment amount detected by said ~~third~~ second detection device; and

a second calculation device that calculates the amount of high-frequency correction that is corrected by said high-frequency-correction device according to said detected vehicle speed, ~~said detected opened/closed status and said detected adjustment amount.~~

13. (currently amended) The sound-correction apparatus of claim 12 comprising:

a memory device that stores said amount of low-frequency correction in correspondence to the ratio of said low-frequency component extracted by said extraction device, and said amount of adjustment detected by said ~~third~~ second detection device, and stores said amount of high-frequency correction in correspondence to said detected adjustment amount, said vehicle speed and said opened/closed status; and wherein

said low-frequency-correction device performs correction based on said amount of low-frequency correction stored in said memory device , and

said high-frequency-correction device performs correction based on said amount of high-frequency correction stored in said memory device.

14. (currently amended) The sound-correction apparatus of claim 12 wherein

said amount of low-frequency correction increases with respect to said adjustment amount detected by said ~~third~~ second detection device according as the level of said low-frequency component extracted by said extraction device increases.

15. (original) The sound-correction apparatus of claim 12 wherein

said amount of low-frequency correction is the amount that the sound of frequencies below a specified frequency is corrected, and it increases according as the frequency is lower.

16. (original) The sound-correction apparatus of claim 12 wherein

said amount of high-frequency correction is the amount that the sound in the full range of the signal being reproduced is corrected, and it increases according as the frequency is higher.

17. (original) The sound-correction apparatus of claim 12 wherein

said amount of high-frequency correction increases according as said vehicle speed increases.

18. (original) The sound-correction apparatus of claim 12 wherein

when said opening/closing mechanism is opened, said amount of high-frequency correction increases with respect to said amount of high-frequency correction when said opening/closing mechanism is closed.

19. (currently amended) The sound-correction apparatus of claim 12 wherein

said amount of high-frequency correction decreases according as said adjustment amount detected by said ~~third~~ second detection device increases.

20. (original) A sound-correction method for the audio apparatus installed in a vehicle having an adjustment process of adjusting the sound volume of the full frequency range of the signal being reproduced, comprising:

an extraction process of extracting the low-frequency component below the audible frequency;

a first detection process of detecting the vehicle speed;

a second detection process of detecting the opened/closed status of an opening/closing mechanism in the vehicle;

a third detection process of detecting the adjustment amount by said adjustment process;

an acquisition process of acquiring the ratio of said low-frequency component extracted by said extraction process and said adjustment amount detected by said third detection process;

a first calculation process of calculating the low-frequency-correction characteristics according to the ratio calculated by said acquisition process;

a second calculation process of calculating the high-frequency-correction characteristics according to said adjustment amount, said vehicle speed and said opened/closed status;

a low-frequency-correction process of correcting the sound in the low-frequency range based on said low-frequency-correction characteristics calculated by said first calculation process; and

a high-frequency-correction process of correcting the sound in the high-frequency range based on said high-frequency-correction characteristics calculated by said second calculation process.